

Figure 1A.

TLR11 DNA sequence

ATGCTGAAACAATATATTCCTCTTGCTTTTGCACCAATTCCTGGCTGCCC
ATGGCTCACTCAGAGGATTCCCAGTAGAATCGATGCCAAGGATGGAAAG
ACATCAGTTCTGCTCTGTTCTCCTCATTCTGATACTATTGACTCTGGAATA
GAAAAAGTGCCTGCAAGTTTGACTGGCTACTCTGAGCTTCGTGCACTTGA
CCTTGGGAAAAACCAAATCCAAAACATCTTGGAAAATGGAGAAATCCCA
GGTTATAAAGCCCTGGAATTCCTTAGCCTTCATGATAACCATCTGCAAAC
ACTTCTACCAGGTTTCTACATACTCTACCCCAGCTTCAGAAGCTCAACC
TATCTATGAATAAGCTTGGACCAATCTTGGAGCTTCCAGAAGGACTCTTT
AGCACAAACTTAAAAGTGCTAGATCTATCCCATAATCAACTCTGTGATGT
ACCCCATGGGGCTTTCTCCCTTTTGTACAGCTCCAGGAGCTCTGGTTGA
GTGGCAATAACATCTCCAGTTTATCCAATGAAAGCCTGCAGGGACTGAG
GCAGCTGAGGACACTAGACTTAAGTTGGAATCAAATTAAGTACTCAAA
CCAGGCTGGCTCTCTCATCTTCCTGCTCTGACTACCTTGAACCTTCTGGGC
ACCTACTTAGAAAATATCTTAGGCATACAACCTTCAGGGTCCCAAGATGCT
AAGGCATCTACAACCTGGGTTCTTATCCAATGCTGGACATATATCCTCCCT
GGCCCCCAACACTCCTTAGCTTAGAAATACAAGCAGAATCATGTATTCA
GTTTATGATTACAGTGGACAGCCATTCTTATTCTTAGAGAACCTTACCT
TAGAGACTTCCATTCTATTACTAAAACCAGACAACATCACAATTCATTTT
CCCTCCCTGCGTCGCCTCACCTTGCCTGGCTACAGCTTCATCTTCTCAACC
AGTCAACTTCAGAGATTCTTCCCACAACAGCTTCCTCTTCTGGAGCACTT
CTTTATCTGGTGTGAAAACAGCTATGCAGTAGACCTCTATCTATTTGGGA
TGCCCAGGCTACGTGTGCTAGAGCTGGGGTACCTTAACCTTTTCTATGAG
TCAAGTACTATGAAGCTAGAGATGCTATTGAAGGAGGTACCTCAGTTAC
AGGTACTGGCATTGAGCCACCTGAATCTCAGGAACCTCTCTGTGTCCAGC
TTTAAGAGCTTGCAGGACCTCAAACCTGCTGCTCTTCAACTCTGAAAGGGC
GCTGGAGATGAACAGCAACCTCCAGGAGTTTATTCCTCAGATGCCTCAG
TACGTTTACTTCTCTGATGTCACCTTTACTTGCCAGTGTGAAGCTTCCTGG
CTGGAGTCTTGGGCTACACGGGGCCCCAAACACATTTGTTTATGGGCTGGA
AAAATCCATTTGCATAGCTAATGCCTCAGACTACTCCAAAACCTCTACTAT
TCTCTTTCCTTGCTACTAATTGTCCACACGGTACTGAGTTTTGGGGCTTTC
TCACCAGTTTCATTCTGCTGCTTCTGTTGATTATCCTTCCTCTGATTAGCT
GTCCTAAATGGTCCTGGCTTCATCACCTCTGGACACTCTTTCATACTTGT
GGTGGAATTATGTGGACATAGACTCAGAGGCCAATTCAACTATGATGT
CTTTATATCCTATTGTGAGGAGGATCAAGCTTGGGTGCTGGAAGAACTG
GTTCCAGTTCTGGAGAAAGCCCCTCCTGAAGGTGAAGGCTTGAGGTTGT
GCCTGCCTGCCAGGGACTTTGGGATTGGAAATGACAGGATGGAATCCAT
GATTGCCAGCATGGGCAAAAGCAGAGCCACCCTCTGTGTGCTCACAGGA
CAGGCCTTAGCAAGTCCCTGGTGCAATCTAGAGTTACGACTGGCCACTTA
CCACTTGGTAGCCAGGCCTGGGACCACTCATCTCCTGCTGTTGTTTCTGG
AGCCCCTTGATAGGCAGAGGCTCCATAGTTACCATCGCCTATCCCGTTGG
CTCCAGAAGGAGGACTATTTTGATTGTCCCAAGGGAAAGTGGAGTGGA
ACTCTTCTGTGAGCAACTGAAGAGACGGCTCAGCAAAGCTGGACAAGA
AAGAGATTAA

Figure 1B.**TLR11 Protein sequence**

MLKQYIPLAFAPIGCPWLTQRIPSRIDAKDGKTSVLLCSPHSDTIDSGIEKVP
ASLTGYSELRALDLGKNQIQNILENGEIPGYKALEFLSLHDNHLQTLPTRFLH
TLPQLQKLNLSMNKLGPILELPEGLFSTNLKVLDLSHNQLCDVPHGAFSLLS
QLQELWLSGNNISSLSNESLQGLRQLRTLDSLWNQIKVLKPGWLSHLPALTT
LNLLGTYLENILGIQLQGPKMLRHLQLGSPMLDIYPPWPPTLLSLEIQAESCI
QFMIHSGQPFLFLENLTLETSILLKPDNITHFPSLRRLTLRGYSFIFSTS QLQR
FFPQQLP LLEHFFIW CENS YAVDLYLFGMPRLRVLELGYLNFFYESSTMKLE
MLLKEVPQLQVLALSHLNLRNLSVSSFKSLQDLKLLLFNSERALEMNSNLQE
FIPQMPQYVYFSDVTFTCQCEASWLESWATRAPNTFVYGLEKSICIANASDY
SKTLLFSFLATNCPHGTEFWGFLT SFILL LLLIILPLISCPKWSWLHHLWTLFH
TCWWKLCGHR LR GQFN YDVFISYCEEDQAWVLEELVPVLEKAPPEGEGLR
LCLPARDFGIGNDRMESMIASMGKSRATLCVLTGQALASPWCNLELRLATY
HLVARPGTTHLLLLFLEPLDRQLHSYHRLSRWLQKEDYFDLSQGKVEWNS
FCEQLKRRLSKAGQERD

Figure 2A.

TLR12 DNA sequence

GGACCTTGCAGGTACTCTGAGGTGGATGAGAGTATTGGTAACCCGGAGG
CATAGGAGTCTAAAGTCCTCTCAGCTCTGATTCCCTCTGGTGTAGAGATGG
GCAGGTACTGGCTGCTGCCAGGTCTCCTCCTTTCCCTGCCTCTGGTAACT
GGGTGGAGCACTTCCAACCTGCCTGGTGACCGAAGGCTCCCGACTGCCCC
TGGTCTCCCGCTATTTACATTCTGCCGCCACTCCAAGCTATCCTTTCTTG
CTGCATGCCTCTCCGTGAGCAACCTGACACAGACCTTGGAAGTTGTACCT
CGGACTGTGGAGGGGCTCTGCCTCGGTGGTACTGTGTCTACTCTGCTTCC
AGATGCTTTCTCTGCTTTTCCTGGTCTCAAGGTCCTGGCACTGAGTCTGC
ACCTTACCCAACCTTCTGCCAGGAGCTCTCCGGGGTCTGGGACAGTTGCAG
AGCCTCTCTTTTTTTGACTCTCCTCTTAGGAGATCTCTCTTTCTACCTCCT
GATGCCCTTCAAGTGACCTGATTTCCCTCCAGAGACTCCATATCTCTGGCCC
TTGCCTGGATAAGAAGGCAGGCATCCGCCTGCCTCCCGGTCTGCAATGG
CTGGGTGTACGCTCAGTTGCATTCAGGACGTGGGAGAGCTGGCTGGTA
TGTTCCAGATCTGGTGCAAGGTTCTCCTCCAGGGTTTCGTGGACCTGT
CAGAAGTTGGATCTGTCATCCAACCGGAAGCTGAAGATGGCTAGTCTGT
GGTCCCTCCAGGGTCTCCAGGTGGAGATTCTGGACCTGACAAGAACACC
ACTGGATGCTGTGTGGCTGAAGGGCCTGGGACTTCAGAAACTCGATGTC
TTGTATGCACAGACTGCCACGGCCGAGCTGGCTGCTGAGGCTGTTGCCC
ACTTTGAGCTGCAGGGCTTGATTGTGAAAGAAAGCAAGATAGGATCTAT
ATCTCAGGAGGCTCTGGCTTCCTGCCACAGCCTGAAGACCTTGGGTCTTT
CAAGCACTGGCCTAACCAAGCTTCCACCAGGCTTCCTGACTGCCATGCCT
AGGCTTCAGCGACTGGAGCTGTCCGGAACCAACTGCAGAGCGCCGTGC
TGTGCATGAATGAGACGGGAGATGTGTGAGGACTCACAACCTCTGGATCT
GTCAGGCAACAGGTTGCGCATCCTGCCTCCAGCCGCCTTCTCCTGCTTAC
CCCCTTGCAGAGAGCTGCTGCTTCGGTACAACCAGCTGCTTTCCCTGGAG
GGATACCTATTCCAGGAGCTCCAGCAACTAGAGACCTTGAAGCTGGATG
GAAACCCCTGCTTACCTGGGTAAGAACTGGTTGGCGGCTCTGCCTGCA
TTGACCACCCTTAGCTTGCTAGATACCCAAATACGGATGAGCCCAGAGC
CTGGCTTCTGGGGAGCAAAGAATCTGCATACCTTGAGCCTGAAGCTTCCC
GCTCTCCCTGCTCCGGCAGTATTGTTCTGCCCATGTATCTGACCAGCTT
AGAGCTTCATATAGCCTCAGGCACGACGGAGCACTGGACGCTGTCCCCA
GAGATCTTTCTTCTTGGAGACCTTGACTATAAGCGGCGGGGGACTGA
AGCTGAAGCTGGGGTCCCAGAATGCTTCTGGGGTCTTCCCTGCTCTCCAG
AAGCTCTCCCTGCTTAAGAACAGCTTGGATGCCTTCTGCTCCCAGGGTAC
CTCCAACCTTTTCTCTGGCAGCTCCCCAACTTCAGTCCTTGAGGGTAT
GGGGTGCTGGAAACAGCTCCAGACCCTGCCTTATCACTGGGCTGCCCCAG
CCTACGGGAGCTGAAGCTGGCGTCGCTTCAGTCCATAACCCAGCCCCGT
CGGTGCAGCTGGAGGAGCTGGTGGGTGACCTTCCACAGCTCCAGGCCTT
AGTGCTATCCAGCACAGGCCTCAAGTCACTGTGCGCCGCTGCTTTCCAGC
GCCTGCACAGTCTCCAGGTCTTAGTGCTAGAATACGAGAAGGACTTGAT
GCTGCAGGACAGTCTGAGGGAGTACAGCCCTCAGATGCCCCACTATATA
TACATTCTGGAGTCAAACCTGGCCTGCCACTGTGCCAATGCGTGGATGG
AGCCATGGGTTAAGCGGTCCACTAAAACGTACATATACATAAGAGACAA
TCGCTTATGTCCAGGACAAGACAGGCTCTCTGCTAGGGGTTCCCTTCCCT

Figure 2A (cont.)

CCTTTCTCTGGGACCACTGCCCCCAGACGTTGGAGCTGAAACTCTTTTTG
GCTAGTTCTGCCTTGGTGTTTCATGCTAATTGCCTTGCCTCTCCTCCAAGAA
GCCAGGAACTCTTGGATCCCCCTACCTGCAGGCCTTGTTCAAGGGTTTGGCT
CCAGGGTCTGAGGGGTAAGGGAGACAAGGGGAAGAGGTTCTTTTCGAT
GTATTCGTGTCCCACTGCAGGCAAGACCAGGGCTGGGTGATAGAGGAAC
TTCTGCCTGCTCTGGAGGGCTTCCTTCCAGCTGGCCTGGGCCTGCGCCTC
TGTCTCCCCGAGCGTGAGTTTGAGCCTGGTAAGGATGTAGTTGATAATGT
GGTAGATAGCATGTTGAGCAGCCGTACCACACTCTGCGTGTTGAGTGGG
CAGGCCCTGTGTAACCCCCGATGCCGCCTGGAGCTCCGCTTGGCCACCTC
TCTCCTCCTGGCTGCCCCGTCCCCCCCAGTGTTGCTGCTAGTCTTCTTGGA
ACCCATTTCTCGGCACCAGCTTCCGGGTTACCACAGACTGGCTCGGCTGC
TTCGAAGAGGAGACTACTGTCTGTGGCCCGAGGAAGAGGAGAGAAAGA
GTGGGTTCTGGACTTGGCTGAGGAGCAGGCTAGGGTAGCCATAGCCAGC
ACTGGTGTGGGGTGGTGCATGTGAATTTGGGGTGGGGTTGGG

Figure 2B.

TLR12 Protein sequence

MGRYWLLPGLLLSLPLVTGWSTSNCLVTEGSRLPLVSRYFTFCRHSKLSFLA
ACLSVSNLTQTLEVVPRTVEGLCLGGTVSTLLPDAFSAFPGLKVLALSLHLT
QLLPGLRGLGQLQSLSFFDSPLRRSLFLPPDAFSDLISLQRLHISGPCLDKKA
GIRLPPGLQWLGVTLSCIQDVGELAGMFPDLVQGSSSRVSWTLQKLDLSSNR
KLKMASPGSLQGLQVEILDLTRTPLDAVWLKGLGLQKLDVLYAQTATAEL
AAEAVAHFELQGLIVKESKIGSISQEALASCHSLKTLGLSSTGLTKLPPGF LT
AMPRLQRLELSGNQLQSAVLCMNETGDVSGLTTLDLGNRLRILPPAAFSC L
PHLRELLRLRYNQLLSLEGYLFQELQQLETLKLDGNPLLHLGKNWLAALPAL
TTLSLDQTQIRMSPEPGFWGAKNLHTLSLKLPAVPAPAVLFLPMYLTSL ELHI
ASGTTEHWTLSPEIFPSLETLTISGGGLKLKLGSQNASGVFPALQKLSLLKNS
LDAFCSQGTSNLFWLQPKLQSLRVWGAGNSSRPCLITGLPSLRELKLASLQ
SITQPRSVQLEELVGDLPQLQALVLSSTGLKSLSAAAFQRLHSLQVLVLEYE
KDLMLQDSLREYSPQMPHYIYILESNLACHCANAWMEPWVKRSTKTYIYIR
DNRLCPGQDRLSARGSLPSFLWDHCPQTLELKLFLASSALVFMLIALPLLQE
ARNSWIPYLQALFRVWLQGLRGKGDKGKRFLFDVVFVSHCRQDQGWVIEEL
LPALLEGFLPAGLGLRLCLPEREFEPGKDVVDNVVDSMLSSRTTLCVLSGQAL
CNPRCRLELRLATSLLLAAPSPPVLLLVFLEPISRHQLPGYHRLARLLRRGDY
CLWPEEEERKSGFWTWLRSRLG

Figure 3.

